DAILY ACTIVITY REPORT

Report # 5 **DATE** Jan 25, 2017 S M T ***W*** TH F S

Field Investigation Manager: Tim Thompson

WEATHER	Bright Sun	Clear to Partly Cloudy	***Overcast***	Rain	
TEMPERATURE °F	<32°	32-45°	***45-60°***	60-70°	70-85°
WIND	***Still***	Mod.	High		
HUMIDITY	Dry	***Mod.***	Humid		

DAYTIME TIDES

TASK: ☐ Industrial Area Soils ☐ Industrial Area Groundwater ☐ Surface Water ☑ Sediment ☐ MIS

SUBCONTRACTORS/VISITORS ON SITE: Tim Thompson (SEE); David Browning (BES); Kim Hawkins (HDR); Hailey Fitterer (HDR), Susannah Edwards (Ecology)

EQUIPMENT ON SITE: Core-scoring jig and power equipment to open cores

WORK PERFORMED (INCLUDE ANY SAMPLES COLLECTED):

1. Grab composite samples held on ice and delivered to ARI. See attached COC.
2. Split, photographed, and logged cores for geotechnical properties. See attached core logs.

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)

- None

HEALTH AND SAFETY LEVELS AND ACTIVITIES: **Tailgate Meeting Held ☑**

- H&S briefing held at ARI
- Topics included slip-trip-fall, working with power saws, proper PPE including additional eye protection and hearing protection, buddy system mandatory.
- See field notes (attached) for H&S meeting topics

PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

- No problems encountered.

SPECIAL NOTES:

- None

TOMORROW'S EXPECTATIONS:

- Field work completed
- Core logs will be transferred into GINT logs over the next few weeks.
- Individual core photo sections will be placed into a photo mosaic for the entire core to include with the final report.

ATTACHMENTS:

- ARI COC forms for composite samples
- Core Log Forms
- Field Notebook Pages for 1/25/2017

PREPARED BY: Tim Thompson
SIGNATURE: Filed electronically.

Chain of Custody Record & Laboratory Analysis Request

Science and Engineering for the Environment LLC
4401 Latona NE
Seattle, WA 98105
206-418-6173

SEE LLC — Science & Engineering for the Environment

Lab Assigned Number: 17A0304	Turn-around Requested: Normal	Date: January 25, 2017	
Client Company: HDR	Phone: 425-245-9130	Page: 1	of 1
Client Contact: Jeff Fellows		No. of Coolers:	Cooler Temps:
Client Project Name: East Eagle Harbor OU 2016 OMMP Monitoring			
Client Project #:	Samplers: HDR, SEE, MSS		

Sample ID	Date	Time	Matrix	No. Containers	Grain Size	TOC	Total Solids	PAHs 8270 SIM	PCP by8041	Chem Archive	MS/MSD	Mercury	Notes/Comments
012317001	1/23/2017	09:37	Sediment	5	✓	✓	✓	✓	✓	✓		✓	
012317002	1/23/2017	11:04	Sediment	5	✓	✓	✓	✓	✓	✓		✓	
012317003	1/23/2017	14:41	Sediment	5	✓	✓	✓	✓	✓	✓		✓	
012317004	1/23/2017	15:48	Sediment	5	✓	✓	✓	✓	✓	✓		✓	
012417001	1/24/2017	9:09	Sediment	5	✓	✓	✓	✓	✓	✓		✓	
012417002	1/24/2017	10:15	Sediment	5	✓	✓	✓	✓	✓	✓		✓	
012417003	1/24/2017	13:30	Sediment	5	✓	✓	✓	✓	✓	✓		✓	
012417004	1/24/2017	11:50	Sediment	6	✓	✓	✓	✓	✓	✓	✓	✓	MS/MSD for PAHs only
012317005 W ~~012317005 W~~	1/24/2017	1303	Water	3 4				✓				✓	Note. Date says 2016. Was 2017

Comments/Special Instructions Some sampling jars may have inadvertently listed 2016, not 2017 as the collection year. The correct sampling year is 2017.	Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Tim Thompson	Printed Name: Justin [illegible]	Printed Name:	Printed Name:
	Company: SEE	Company: ARI	Company:	Company:
	Date & Time: 1/25/2017 07:30	Date & Time: 1/25/17 0739	Date & Time:	Date & Time:

1/25/2017 Core Processing

Onsite 0815
Tim Thompson (HDR)
David Brouwer (HDR)
Hailey Fitterer (HDR)
Kim Hawkins (HDR)
Susannah Edwards (Ecology)

-All grab samples trasported to and checked in at ARI. See signed COC

Health & Safety Meeting
Working with power saw
-Appropriate PPE including
- Level D (modified)
- Hearing Protection
- Eye Protection
- Heavy gloves

Discussed when using power saw to score pipes must have eye protection + face shield and Ear Protection

Buddy system mandatory

Lift, slip-trip-fall.

Processed all cores from 1/24

Logged
Measured
Photographed.

See log Sheets

No hydrocarbon visible in any core
Residual sediments discarded to dumpster (in bags → Subtitle D) at ARI

Offsite 12:15

CORE LOG

Project: EAGLE HARBOR	Station ID: J8-C5 Core 2	Location: Eagle Harbor	Page 1 of 1
Latitude: 47 37 06.91686	Longitude: 122 30 12.08778	Name of Driller: MSS	Drilling Firm: MSS
Time: 9:40	Date: 1/20/17	Core Type: 4" VIBRACORE	Core Size: 4" OD Aluminum; 3.75" ID
Mudline: 13.96 ft	Elevation Datum: MLLW	Penetration: 5'	Acquisition: 1.7
Tide Time/Height 9:42 12.561	Tide Time/Height 9:48 12.639	Percent Recovery: 34%	Accept/Reject: (Accept) Reject
Date Logged: 1/26/2017	Time Logged: 09:00	Name of Core Logger: BROWNING	

Depth (unit) CM	Sampling: USCS	Munsel Color	PID	Sample Depth	Sample Number	USCS group name, color, grain size range, minor constituents, plasticity, odor, sheen, moisture content, texture, wethering, cementation, geologic interpretation, etc
0		2.5Y 2.5/1				0-8 cm, SOFT, MOIST, ORGANIC VERY SILTY FINE SAND W/ MODERATE H2S ODOR, NO SHEEN.
10		2.5Y 3/1				FIRM, MOIST, SLIGHTLY SILTY COARSE SANDY GRAVEL. NO ODOR, NO SHEEN, POORLY SORTED, NO GRADING. GRAVELS ARE LITHIC & ROUNDED TO SUBROUNDED STAINED FROM OVERLYING DEPOSIT.
20						
30						
40					46 cm	
50		5Y 3/2				FIRM, DAMP, SLIGHTLY GRAVELY MEDIUM TO COARSE SAND. NO SORTING, NO GRADING. NO ODOR NO SHEEN. GRAVELS ARE SUBROUNDED LITHICS
60						↑ CARTER TRANSITIONS TO 5Y 4/3 AT BASE OF SHOE
70						↓ SAME AS ABOVE, ~~NO~~ GRAVELS HARD PACKED IN SHOE
						71 CM EOC

CORE LOG

Project: EHOU	Station ID: J8-C3	Location: Eagle Harbor	Page 1 of 1
Latitude: 48 37 07.9517	Longitude: 122 30 11.6251	Name of Driller: MSS/SEE	Drilling Firm: MSS
Time: 12:14	Date: 1/20/17	Core Type: Vibracore	Core Size: 4" OD Aluminum; 3.75" ID
Mudline: -5.2	Elevation Datum: MLLW	Penetration: 4.7'	Acquisition: 2.2'
Tide Time/Height 12:12 12.101	Tide Time/Height 12:18 11.996	Percent Recovery: 46.8%	Accept/Reject: (Accept) Reject
Date Logged: 1/25/17	Time Logged:	Name of Core Logger: BROWN.NG	

Depth (unit)	Sampling: USCS	Munsel Color	PID	Sample Depth	Sample Number	USCS group name, color, grain size range, minor constituents, plasticity, odor, sheen, moisture content, texture, wethering, cementation, geologic interpretation, etc
10	2.5Y 3/1					LOOSE, MOIST, VERY ~~COA~~ SANDY GRAVEL. SANDS & GRAVELS ARE LITHIC & SUBROUNDED SLIGHT H_2S ODOR IN UPPER 6CM, MINOR (CLAY) SILT COMPONENT IN UPPER CM. SEVERAL SMALL SHELL FRAGMENTS IN UPPER 10CM. SHELL FRAGS ARE TRESUS CAPAX, BARNACLES ON ONE 2CM GRAVEL AT TOP OF CORE
20	↓					
30						BECOMES MORE CONSOLIDATED/HARDER W/ DEPTH IN CORE AS GRAVELS BECOME MORE COMPACT.
40						
50	↓					
60	2.5Y 3/3					↑ CATCHER ↓
70						70CM EOC

CORE LOG

Project: EHOV 2016	Station ID: L8-C5 Core 1	Location: Eagle Harbor	Page 1 of 1
Latitude: 47 37 06.98394	Longitude: 122 30 04.9128	Name of Driller: MSS / SEE / BES	Drilling Firm: MSS
Time: 10:52	Date: 1/20/17	Core Type: Vibracore	Core Size: 4" OD Aluminum; 3.75" ID
Mudline: -2.2	Elevation Datum: MLLW	Penetration: 7'	Acquisition: 4.5 1
Tide Time/Height 10:48 12.92	Tide Time/Height 10:54 12.92	Percent Recovery: 64.290	Accept/Reject: (Accept) Reject
Date Logged: 1/25/17	Time Logged: →	Name of Core Logger: Browning	

Depth (unit) CM	Sampling: USCS	Munsel Color	PID	Sample Depth	Sample Number	USCS group name, color, grain size range, minor constituents, plasticity, odor, sheen, moisture content, texture, wethering, cementation, geologic interpretation, etc
10		2.5Y				FIRM, DAMP, SLIGHTLY SILTY FINE TO MEDIUM SAND. INTACT EEL GRASS AT SWI W/ TURIOD. SEVERAL SMALL SHELL FRAGMENTS (MACOMA).
20		3/1				SLIGHT H2S ODOR, NO SHEEN, TRIED TO FLOAT SHEEN OUT W/ H2O
30						- TWO, SMALL 0.5 x 2 CM WOOD FRAGMENTS-
40						MINOR (A FEW FRAGS) OF GRASSULARIA AT SWI
50						
60		2.5Y				DENSE, DAMP, SLIGHTLY SILTY SANDY GRAVEL, SAND & SILTS ARE INTERSTITIAL TO GRAVELS. NO ODOR NO SHEEN.
70		3/1				GRAVELS ARE LITHIC AND ~~RE~~ SUBROUNDED TO ROUNDED. 1CM GRAVELS.
80						
90		2.5Y				LOOSE, DAMP, SLIGHTLY, SANDY GRAVEL W/ VERY MINOR (<5%) SILT, SHELL ARE FRAGMENTED & PARTIALLY WEATHERED - TRESUS, SAXIDOMUS, PROTOTHACA,
100		4/1				GRAVELS ARE SUBROUNDED TO ROUNDED
110		2.5Y				DENSE, DAMP, SLIGHTLY CLAYEY, SANDY GRAVEL
120		4/1				GLACIAL, POORLY SORTED, POORLY GRADED GRAVELS ARE LITHIC & SUBROUNDED TO ROUNDED-
				EOL		

CORE LOG

Project: EHOV 2016	Station ID: KB-C5	Location: Eagle Harbor	Page 1 of 1
Latitude: 47 37 07.00104	Longitude: 122 39 08.5032	Name of Driller: MSS/SSE/BES	Drilling Firm: MSS
Time: 10:17	Date: 1/20/17	Core Type: Vibracore	Core Size: 4" OD Aluminum; 3.75" ID
Mudline: -2.7'	Elevation Datum: MLLW	Penetration: 7	Acquisition: 4.71
Tide Time/Height 10:18 +12.57	Tide Time/Height 10:24 12.9	Percent Recovery: 67%	Accept/Reject: (Accept) Reject
Date Logged: 1/25/17	Time Logged: 09:55	Name of Core Logger: Browning	

Depth (unit) cm	Sampling					USCS group name, color, grain size range, minor constituents, plasticity, odor, sheen, moisture content, texture, wethering, cementation, geologic interpretation, etc
	USCS	Munsel Color	PID	Sample Depth	Sample Number	
10		2.5Y 3/1				SOFT; MOIST, SLIGHTLY SILTY, WELL SORTED MEDIUM SAND. SHELL FRAGMENTS AT SURFACE POLYCHAETE @ 25 cm. NO SHEEN, TRIED FLOATING OUT SHEEN ALSO. SLIGHT H2S ODOR IN 0-4 cm.
20						
30						
40		2.5Y 4/1				FIRM ~~GRADE~~ MEDIUM SANDY GRAVEL, SANDS & GRAVELS ARE LITHICS AN SUBROUND, MINOR SILT COMPONENT (<10%). MOIST
50					49	
60		2.5Y 3/3				MOIST, COARSE SANDY GRAVEL. GRAVELS & SANDS ARE LITHIC. NO ODOR NO SHEEN, NO FINES IN SAND/GRAVEL INTERSTICES.
70						
80		2.5Y 4/3				DENSE, DAMP, SLIGHTLY CLAYEY, COARSE SANDY GRAVEL. SAND & GRAVEL INTERSTICES FILLED W/ CLAY. GLACIAL
90						GRAVELS ARE SUBROUNDED TO ROUNDED UP TO 5-6 cm IN LONG AXIS. NO ODOR, NO SHEEN UNIFORM.
100						
110						
120						
130						
140						
150						

CORE LOG

Project: EHOU 2016	Station ID: K+-C5	Location: Eagle Harbor	Page 1 of 1
Latitude: 47 37 09.42748	Longitude: 122 30 08.547	Name of Driller: MSS/BES/SEE	Drilling Firm: MSS
Time: 1110	Date: 1/20/17	Core Type: Vibracore	Core Size: 4" OD Aluminum; 3.75" ID
Mudline: -10'	Elevation Datum: MLLW	Penetration: 7	Acquisition: 4.6
Tide Time/Height 1/20/17 11:40 12.8	Tide Time/Height 11:18 12.769	Percent Recovery: 67.1%	Accept/Reject: (Accept) Reject
Date Logged: 1/25/17	Time Logged:	Name of Core Logger: Browning	

Depth (unit) CM	Sampling: USCS	Munsel Color	PID	Sample Depth	Sample Number	USCS group name, color, grain size range, minor constituents, plasticity, odor, sheen, moisture content, texture, wethering, cementation, geologic interpretation, etc
10		5Y 4/2				SOFT, MOIST, SLIGHTLY SILTY FINE SAND. 1-3cm CLOT OF SLIGHTLY SILTIER MATERIAL W/ A 2.5Y 3/2 HUE. NO ODOR NO SHEEN. TRIED TO FLOAT SHEEN THROUGHOUT ENTIRE LENGTH OF CORE MINOR VERY SMALL (<5mm) SHELL FRAGMENTS.
20					19	
30						FIRM, DAMP SLIGHTLY SILTY, SANDY, GRAVEL. GRAVELS ARE NORMALLY GRADED FROM 19-63 CM. POORLY GRADED BELOW.
40		5Y 4/3				GRAVELS ARE LITHIC AND SUBROUNDED TO ROUNDED.
50						2 cm BAND FROM 63-65 CM WHERE SMALL SHELL FRAGMENTS ARE ALSO PRENT IN MATRIX
60						GRAVELS UP TO 8 CM IN MAJOR AXIS.
70						
80					78	
90		5Y 4/2				FIRM, DAMP, GRAVELLY MEDIUM SAND. NO ODOR. NO SHEEN NO GRADING, SLIGHT SORTING. NO SHELL FRAGMENT. GRAVELS ARE ROUNDED & NO GRADING AS TO THEIR PRESENCE.
100						
110						
120						
130						
140						
						144cm EOC

CORE LOG

Project: EHOU 2016	Station ID: J7-C5	Location: Eagle Harbor	Page 1 of 1
Latitude: 47 35 09.39146	Longitude: 122 30 12.069	Name of Driller: MSS/SEE/BES	Drilling Firm: MSS
Time: 11:36	Date: 1/20/17	Core Type: Vibracor	Core Size: 4" OD Aluminum; 3.75" ID
Mudline: — see note	Elevation Datum:	Penetration: 6.7	Acquisition: 3.6'
Tide Time/Height —	Tide Time/Height —	Percent Recovery: 56%	Accept/Reject: (Accept) Reject
Date Logged: 1/25/2017	Time Logged: 11:05	Name of Core Logger: BROWNING	

Depth (unit)	USCS	Munsel Color	PID	Sample Depth	Sample Number	USCS group name, color, grain size range, minor constituents, plasticity, odor, sheen, moisture content, texture, wethering, cementation, geologic interpretation, etc
0–19 (10)		2.5Y 3/1			19	SOFT, DAMP, SLIGHTLY SILTY, MEDIUM SAND W/ SEVERAL LARGE HORSE CLAM SHELL FRAGMENTS (4-8cm) NO ODOR, NO SHEEN. A FEW STRANDS OF ALGAE (RED, GRASS, ...).
19–45 (20, 30, 40)		2.5Y 4/1			45	FIRM DAMP, TRACE CLAYEY, SANDY GRAVEL, CLAY FLOATS OUT W/ APPLICATION OF WATER. NO ODOR, NO SHEEN. GRAVELS REVERSELY GRADED, LITHIC AND ROUNDED.
45–65 (50, 60)					65	LOOSE, DAMP, SANDY FINE GRAVEL W/ NO FINES IN INTERSTICES. NO ODOR, NO SHEEN.
65–115 (70, 80, 90, 100, 110, 115)		~~2.5~~ 2.5Y 4/2				DENSE, DAMP, SLIGHTLY CLAYEY, SANDY GRAVELS FINES ARE INTERSTITIAL TO SANDS & GRAVEL, GLACIAL. GRAVELS ARE LITHIC & ROUNDED TO SUBROUNDED. CATCHER.
115						EOC